

특 허 협 력 조 약  
(PATENT COÖPERATION TREATY)

발신 : 국제조사기관

수신 :

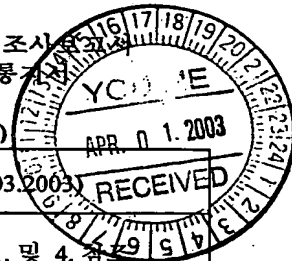
YOU ME Patent & Law Firm

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Seoul 135-080, Republic of KOREA

PCT

국제조사보고서 또는 국제조사원칙서  
부작성 선언서 송부 통지

(PCT 규칙 44.1)



발송일  
(일/월/년)

27 MARCH 2003 (27.03.2003)

출원인 또는 대리인 서류참조기호  
OPP020643KR

이후의 절차에 대하여는 아래 1. 및 4. 참조

국제출원번호  
PCT/KR02/01742

국제출원일  
(일/월/년)

17 SEPTEMBER 2002 (17.09.2002)

출원인

SAMSUNG ELECTRONICS CO., LTD. et al

1. ☒ 국제보고서가 작성되어 이를 송부함을 출원인에게 통지합니다.  
조약 제19조의 규정에 의한 보정서 및 설명서의 제출:  
희망하는 경우 출원인은 국제출원의 청구의 범위를 보정할 수 있습니다.(조약규칙 46):  
기간 보정서 제출기간은 통상 국제조사보고서 송부일로부터 2월.

제출처 The international Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland  
Facsimile No. : (41-22) 740 14 35

보다 자세한 지침에 대하여는 첨부되는 용지에 기재된 설명을 참조.

2. ☐ 국제조사보고서가 작성되지 아니할 것이며 조약 제17조(2)(a)의 규정에 의한 선언서가 송부됨을 출원인에게 통지합니다.
3. ☐ 조약규칙 40.2의 규정에 의한 추가수수료 납부에 대한 이의신청과 관련하여 아래 사항을 출원인에게 통지합니다.
- ☐ 이의신청 및 이의신청에 대한 결정 통지서를 출원인이 제출한 이의신청 및 이의신청에 대한 결정 통지서의 지정관청에의 송부 신청서와 함께 국제사무국에 송부하였습니다.
- ☐ 이의신청에 대한 결정이 아직 이루어지지 않았습니, 결정이 이루어지는 대로 출원인에게 통지할 것입니다.

4. 주의사항

우선일로부터 18월 직후 국제사무국은 국제출원을 공개합니다. 공개를 하지 않거나 또는 연기할 것을 희망하는 경우에는 출원인은 국제공개의 기술적 준비가 완료되기 전에 각각의 경우에 따라 조약 규칙 90bis.1 및 90bis.3의 규정에 의한 국제출원 취하서 또는 우선권주장 취하서를 국제사무국에 제출하여야 합니다.

일부 지정관청에 대하여는 출원인이 우선일로부터 30일까지 (일부관청에 대하여는 더 늦을수도 있음) 국내단계의 개시를 연기하고자 하는 경우에는 우선일로부터 19월 이내에 국제예비심사를 청구하여야 합니다. 그렇지 않은 경우 출원인은 우선일로부터 20월 이내에 당해 지정관청에 대한 국내단계의 개시를 위한 규정된 절차를 밟아야 합니다.

다른 지정관청에 대하여는, 우선일로부터 19월 이내에 국제예비심사를 청구하지 않더라도 30월(또는 더 늦을 수도 있음)의 기간이 적용될 것입니다.

서식 PCT/IB/301의 부속서류를 참조하기 바람, 각 특허청마다의 적용기간에 대한 구체적인 사항은 PCT출원인 안내 제2권 국내단계 및 WIPO 인터넷 사이트를 참조하시기 바랍니다.

ISA/KR의 명칭 및 우편주소



대한민국 특허청  
302-701 대한민국 대전광역시 서구 둔산동  
920번지 정부대전청사

팩스 번호 82-42-472-7140

특허청장

전화번호 82-42-481-5208



서식 PCT/ISA/220 (2002년 4월)

**PATENT COOPERATION TREATY**  
**PCT**

**INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>OPP020643KR</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/KR02/01742</b>	International filing date ( <i>day/month/year</i> ) <b>17 SEPTEMBER 2002 (17.09.2002)</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) <b>08 AUGUST 2002 (08.08.2002)</b>
Applicant  <b>SAMSUNG ELECTRONICS CO., LTD. et al</b>		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawing** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.



☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR02/01742

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> <b>IPC7 G02F 1/1335</b> According to International Patent Classification (IPC) or to both national classification and IPC												
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC G02F G06F  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched KR JP:IPC as above  Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) KIPO DB search term:slit, diffraction,grating,liquid crystal												
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
Y	JP 10-90708 A(TOSHIBA CORP.) 10 APRIL 1998 See the whole document	1,2,8										
Y	US 5654782 A(Citizen Watch Co. Ltd.) 05 AUGUST 1997 See the whole document	1,2,8										
Y	JP 05-264246 A(FUJITSU LTD.) 12 OCTOBER 1993 See the whole document	1,2,8										
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.												
<p>* Special categories of cited documents:</p> <table border="0"><tr><td>"A" document defining the general state of the art which is not considered to be of particular relevance</td><td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td></tr><tr><td>"E" earlier application or patent but published on or after the international filing date</td><td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td></tr><tr><td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)</td><td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td></tr><tr><td>"O" document referring to an oral disclosure, use, exhibition or other means</td><td>"&amp;" document member of the same patent family</td></tr><tr><td>"P" document published prior to the international filing date but later than the priority date claimed</td><td></td></tr></table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention											
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art											
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"P" document published prior to the international filing date but later than the priority date claimed												
Date of the actual completion of the international search 24 MARCH 2003 (24.03.2003)		Date of mailing of the international search report 25 MARCH 2003 (25.03.2003)										
Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140		Authorized officer YANG, Jae Seok Telephone No. 82-42-481-5988 										

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR02/01742

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 10-090708 A	10-04-1998	NONE	
US 5654782 A	05-08-1997	EP0608458 A1 DE 69331410 T2	03-08-1994 22-08-2002
JP 05-264246 A	12-10-1993	NONE	

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Information on patent family members


International application No.

PCT/KR02/01742

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US 5654782 A	05-08-1997	EP0608458 A1 DE 69331410 T2	03-08-1994 22-08-2002
JP 05-264246 A	12-10-1993	NONE	

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PCT/KR02/01742

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
IPC7 G02F 1/1335		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) IPC G02F G06F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched KR JP:IPC as above		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) KIPO DB search term: slit, diffraction, grating, liquid crystal		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 10-90708 A(TOSHIBA CORP.) 10 APRIL 1998 See the whole document	1,2,8
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Y	JP 05-264246 A(FUJITSU LTD.) 12 OCTOBER 1993 See the whole document	1,2,8
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p>		
Date of the actual completion of the international search 24 MARCH 2003 (24.03.2003)		Date of mailing of the international search report 25 MARCH 2003 (25.03.2003)
Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140		Authorized officer YANG, Jae Seok Telephone No. 82-42-481-5988 